

Amendment under 37 CFR 1.111
Serial No. 09/866,658
Attorney Docket No. 010700

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of claims:

Claim 1 (Currently Amended): A printer which supports a power save mode and performs printing by ~~accepting~~ receiving a print request from a client via a network, comprising:

~~a packet monitoring means for monitoring packets flowing on said~~ monitor that monitors a packet on the network, and for updating and storing a updates and stores client-associated last received time by client, the client-associated last receiving time being the last time when the printer receives the packet for using the printer from the client ~~each time a packet is received from any client of said printer;~~

~~a printer usage rate computing means for determining, by referring to said client-associated last receive time stored by said packet monitoring means, that any client from whose associated last receive time has elapsed a prescribed time is in an~~ computer that determines client condition based on the client-associated last received time, the client condition being idle condition when the packet is not received for a predetermined time, and computes ~~for computing a printer usage rate when the client condition is not the by summing past average usage rates of clients that have been determined not to be in an idle condition; and~~

~~a time setting unit that sets means for setting, based on said printer usage rate computed by said printer usage rate computing means, the length of time~~ to switch to the

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~~allowed before a transition is made to said~~ power save mode based on the printer usage rate.

Claim 2 (Currently Amended): A The printer as claimed in claim 1, further comprising:
~~means for forcing said printer to transition to~~ a switching unit that switches the power save mode
to a standby mode when said the printer is in said power save mode and when said printer usage
rate computed by ~~said the printer usage rate~~ computer computing means is higher than a
predetermined value.

Claim 3 (Currently Amended): A The printer as claimed in claim 1, wherein said time
setting ~~means~~ unit determines the length of time allowed before ~~the a~~ transition to ~~said the~~ power
save mode, by determining a power save interval according to ~~said the~~ printer usage rate and
subtracting an elapsed time in a mode other than ~~said the~~ power save mode from ~~said the~~ power
save interval.

Claim 4 (Currently Amended): A power save control method using for ~~use by~~ a printer,
the printer for supporting that supports a power save mode and ~~performs printing by accepting~~
performing print by receiving a print request from a client via a network, the method comprising
~~the steps of:~~

(a) monitoring ~~packets flowing on said~~ a packet on the network, and updating and storing
a client-associated last received time ~~each time a packet is received from any client of said printer~~

when the printer receives the packet for using the printer from the client, the client-associated last received time being the last time when the printer receives the packet for using the printer from the client;

(b) determining[[,]] ~~by referring to said~~ client condition based on the client-associated last received time, ~~stored in said step (a), that any client from whose associated last receive time has elapsed a prescribed time is in the client condition being idle condition when the packet is not received for a predetermined time, and~~

computing a printer usage rate when the client condition is not the ~~by summing past average usage rates of clients that have been determined not to be in an idle condition; and~~

(e) setting[[,]] ~~based on said printer usage rate computed in said step (b), the length of time to switch to the allowed before a transition is made to said power save mode based on the printer usage rate.~~

Claim 5 (Currently Amended): A The power save control method as claimed in claim 4, further comprising: ~~the steps of forcing said printer to transition~~ switching the power save mode to a standby mode when said the printer is in said power save mode ~~and when said printer usage rate computed in said step (b) is higher than a predetermined value.~~

Claim 6 (Currently Amended): A The power save control method as claimed in claim 4 5, wherein a process of the setting further determines ~~said step (e) determines~~ the length of time

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allowed before the transition to said power save mode, by determining a power save interval according to ~~said~~ the printer usage rate and subtracting an elapsed time in a mode other than ~~said~~ the power save mode from ~~said~~ the power save interval.

Claim 7 (Currently Amended): A recording medium readable by a computer, the storage medium storing a program of instructions executable by the computer to perform a function for controlling printer that supports a power save mode using for a printer, the printer for performing print by receiving and performs printing by accepting a print request from a client via a network, the function comprising said recording medium having stored thereon a program for causing said printer to implement a power save control method comprising the steps of:

(a) ~~monitoring packets flowing on said~~ a packet on the network, and updating and storing a client-associated last received time each time a packet is received from any client of said printer when the printer receives the packet for using the printer from the client, the client-associated last received time being the last time when the printer receives the packet for using the printer from the client;

(b) ~~determining[[,]] by referring to said~~ client condition based on the client-associated last received time, stored in said step (a), that any client from whose associated last receive time has elapsed a prescribed time is in an the client condition being idle condition when the packet is not received for a predetermined time, and

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computing a printer usage rate when the client condition is not the ~~by summing past average usage rates of clients that have been determined not to be in an~~ idle condition; and

(e) setting[[,]] ~~based on said printer usage rate computed in said step (b),~~ the length of time to switch to the ~~allowed before a transition is made to said~~ power save mode based on the printer usage rate.

Claim 8 (Currently Amended): ~~A-recording~~ The storage medium as claimed in claim 7, further comprising: switching the power save mode ~~wherein said power save control method further comprises the steps of forcing said printer to transition~~ to a standby mode when said printer is in said power save mode and when said the printer usage rate computed in said step (b) is higher than a predetermined value.

Claim 9 (Currently Amended): ~~A-recording~~ The storage medium as claimed in claim 7, wherein a process of the setting further ~~said step (e)~~ determines the length of time allowed before the transition to said the power save mode, by determining a power save interval according to said the printer usage rate and subtracting an elapsed time in a mode other than said the power save mode from said the power save interval.

Claim 10 (Cancelled).

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Claim 11 (New): The printer as claimed in claim 1, further comprising:

a list generator that generates a list of the clients which is working on the network when the packet is received by the printer.